■遠赤外領域開発センター 業績一覧 2018年

〔査読付学術原著論文〕 22件

題目	著者	掲載誌, 巻, 号(出版年月)頁
ビーム推進打ち上げ機へのミリ波アクティブフェーズドアレイアンテナの適用	柿沼薫, エンギュイエン フロリアン, 福成雅史, 小紫公也, 小泉宏之	宇宙太陽発電,3 (2018.04)30-37
Thrust generation experiments on microwave rocket with a beam concentrator for long distance wireless power feeding	Masafumi Fukunari, Toshikazu Yamaguchi, Yusuke Nakamura, Kimiya Komurasaki, Yasuhisa Oda, Ken Kajiwara, Koji Takahashi, Keishi Sakamoto	Acta Astronautica,145 (2018.04)263-267
Development of Millimeter Wave Fabry-Pérot Resonator for Simultaneous Electron-Spin and Nuclear Magnetic Resonance Measurement	Y. Ishikawa, K. Ohya, Y. Fujii, A. Fukuda, S. Miura, S. Mitsudo, H. Yamamori, H. Kikuchi	Journal of Infrared, Millimeter, and Terahertz Waves,39 (2018.04)387-398
Enhancing terahertz magnetic near field induced by a micro-split-ring resonator with a tapered waveguide,	Hongsong Qiu, Takayuki Kurihara, Hirofumi Harada, Kosaku Kato, Keisuke Takano, Tohru Suemoto, Masahiko Tani, Nobuhiko Sarukura, Masashi Yoshimura, Makoto Nakajima	Opt. Lett.,43,8 (2018.04)1658-1661
First-principles study of structural, electronic, and optical properties of surface defects in GaAs(001) - β 2(2x4)	Dhonny Bacuyag, Escaño Mary Clare Sison , Melanie David,Masahiko Tani	AIP Advances,8 (2018.06)065012(1)-(4)
Metal-coated <100>-cut GaAs Coupled to Tapered Parallel-plate Waveguide for Cherenkov-phase-matched Terahertz Detection: Influence of Crystal Thickness,	Ramon de los Santos, Valynn Mag-usara, Anthony Tuico, Vernalyn Copa, Arnel Salvador, Kohji Yamamoto, Armando Somintac, Kazuyoshi Kurihara, Hideaki Kitahara, Masahiko Tani, and Elmer Estacio	Journal of Infrared, Millimeter, and Terahertz Waves,39,6 (2018.06)514-520
Intense THz Emission in MBE-grown GaAs film with thin n-doped Buffer,	Elizabeth Ann P. Prieto, Sheryl Ann B. Vizcara, Lorenzo P. Lopez, John Daniel E. Vasquez, Maria Herminia M. Balgos, Daisuke Hashizume, Norihiko Hayazawa, Yousoo Kim, Masahiko Tani, Armando S. Somintac, Arnel A. Salvador, and Elmer S. Estacio	Optical Materials Express,8,6 (2018.06)1463-1471
Surface effect of n-GaAs cap on the THz emission in LT-GaAs,	Maria Herminia Balgos, Rafael Jaculbia, Elizabeth Ann Prieto, Valynn Katrine Mag-usara, Masahiko Tani, Arnel Salvador, Elmer Estacio, Armando Somintac	Journal of Materials Science: Materials in Electronics,29 (2018.07)12436-12442
Numerical Analysis of Plasma Structure Observed in Atmospheric Millimeter-Wave Discharge at Under-Critical Intensity	Yusuke Nakamura, Kimiya Komurasaki, Masafumi Fukunari, Hiroyuki Koizumi	Journal of Applied Phsics,124 (2018.07)033303-(6)
Localized Modes in Fractal Cantor Bar Microstrip Lines,	Hideaki Kitahara, Youhei Suzuki, Junichi Miyashita, and Mitsuo W. Takeda	Journal of Physical Society of Japan,87 (2018.07)084709-(5)
Saturation effects in frequency pulling of gyrotrons operating in high-order axial modes	Masafumi Fukunari, Gregory S. Nusinovich, Yoshinori Tatematsu, Teruo Saito, Yuusuke Yamaguchi	IEEE Transactions on Plasma Science,46,8 (2018.08)2848-2855
Development of Very-Low-Temperature Millimeter-Wave Electron-Spin-Resonance Measurement System	Y. Fujii, Y. Ishikawa, K. Ohya, S. Miura, Y. Koizumi, A. Fukuda, T. Omija, S. Mitsudo, T. Mizusaki, A. Matsubara, H. Yamamori, T. Komori, K. Morimoto, H. Kikuchi	Applied Magnetic Resonance,49,8 (2018.08)783-801
Sub-Terahertz wireless power transmission using 303 GHz rectenna and 300 kW-class gyrotron	Sei Mizojiri, Kohei Shimamura, Masafumi Fukunari, Shunsuke Minakawa, Shigeru Yokota, Yuusuke Yamaguchi, Yoshinori Tatematsu, Teruo Saito	IEEE Microwave and Wireless Components Letters,28,9 (2018.09)834-836
Nonellipsometric electro-optic sampling of terahertz waves in GaAs	A. I. Shugurov, E. A. Mashkovich, S. B. Bodrov, M. Tani, M. I. Bakunov	Optics Express,26,18 (2018.09)23359-23365
マイクロ波ロケットの空気吸い込み機構設計に関する数値計算	田畑 邦佳, エンギュイエン フロリアン, 原田 祐貴, 福成 雅史, 柿沼 薫, 小紫 公也, 中村 友祐, 小泉 宏之	日本航空宇宙学会論文集,66,5 (2018.10)128-134
Efficient Terahertz Generation Using Fe/Pt Spintronic Emitters Pumped at Different Wavelengths	Evangelos Th. Papaioannou, Garik Torosyan, Sascha Keller, Laura Scheuer, Marco Battiato, Valynn Katrine Mag-usara, Johannes L' huillier, Masahiko Tani, and René Beigang	IEEE Transactions on Magnetics,54,11 (2018.11)9100205-(5)
Spectroscopic imaging by two-dimensional electrooptic sampling in the terahertz region	H. Kitahara, M. Tani, M. Hangyo	Journal of Optoelectronics and Advanced Materials,20,11-12 (2018.11)581-585
Large-scale spin-polarized DFT calculation of electronic properties of GaAs with defects	Escaño Mary Clare Sison, Tien Quang Nguyen, Yu Osanai, Hideaki Kasai, Masahiko Tani	Materials Research Express,6 (2019.02)055914(1)-(8)
Effect of segment length modification on localized modes in Cantor bar microstrip lines	Hideaki Kitahara, Youhei Suzuki, Junichi Miyashita, Mitsuo W. Takeda	Jpn. J. Appl. Phys.,58,1 (2019.01)012002-(6)
Photoconductivity, carrier lifetime and mobility evaluation of GaAs films on Si (100) using optical pump terahertz probe measurements	Jessica Afalla, Karl Cedric Gonzales, Elizabeth Ann Prieto, Gerald Catindig, John Daniel Vasquez, Horace Andrew Husay, Mae Agatha Tumangil-Quitoras, Joselito Muldera, Hideaki Kitahara, Armando Somintac, Arnel Salvador, Elmer Estacio, Masahiko Tani	Semiconductor Science and Technology,34,3 (2019.02)035031-(7)
Electromagnetic Property of Coupled System of One-Dimensional Photonic Crystal	Hideaki Kitahara, Youhei Suzuki, Junichi Miyashita, and Mitsuo W. Takeda	Journal of Physical Society of Japan,88 (2019.03)044702-(6)
On the presence of Ga_2O sub-oxide in high-pressure water vapor annealed AlGaN surface by combined XPS and first-principles methods	Mary Clare S. Escaño, Joel T. Asubar, Zenji Yatabe, Melanie Y. David, Mutsunori Uenuma, Hirokuni Tokuda, Yukiharu Uraoka, Masaaki Kuzuhara, Masahiko Tani	Applied Surface Science,481 (2019.03)1120-1126

〔査読付国際会議論文〕 6件

題目	著者	掲載誌, 巻, 号(出版年月)頁
High-frequency electron-spin-resonance measurements on $Mn_xMg_{1-x}O$ (x = 1.0 × 10^{-4}) and DPPH at very low temperatures	Y. Ishikawa, K. Ohya, S. Miura, Y. Fujii, S. Mitsudo, T. Mizusaki, A. Fukuda, A. Matsubara, H. Kikuchi, T. Asano, H. Yamamori, S. Lee, S. Vasiliev	J. Phys.:Conf. Ser.,969 (2018.04)012111-(6)
Magnetic phase diagram of the frustrated S=1/2 triangular-lattice magnet $Cu_2(NO_3)(OH)_3$	H. Kikuchi, N. Kasamatsu, Y. Ishikawa, Y. Koizumi, Y. Fujii, A. Matsuo, K. Kindo	J. Phys.:Conf. Ser.,969 (2018.04)012117-(6)
Microwave Hydrothermal Synthesis of Reduced Graphene Oxide: Effects of Microwave Power and Irradiation Time	La Agusu, La Ode Ahmad, Desna Anggara, Alimin, Seitaro Mitsudo, Yutaka Fujii, Hiromitsu Kikuchi	Journal of Physics: Conference Series,1011 (2018.05)012012-(7)
Hydrothermal Synthesis of Reduced Graphene Oxide Using Urea as Reduction Agent: Excellent X-band Electromagnetic Absorption Properties	La Agusu, La Ode Ahmad, Alimin, M. Nurdin, Herdianto, Seitaro Mitsudo and Hiromitsu Kikuchi	IOP Conference Series : Materials Science and Engineering,367 (2018.06)012002-(6)

Crystal and microstructure of $MnFe_2O_4$ synthesized by ceramic method using manganese ore and iron sand as raw materials	La Agusu, Alimin, La Ode Ahmad, Muhammad Zamrun Firihu, Seitaro Mitsudo and Hiromitsu Kikuchi	Journal of Physics : Conference Series,1153 (2019.02)012056-(7)
Developments for collective Thomson scattering equipment with a sub-THz gyrotron in LHD	Teruo Saito, Yoshinori Tatematsu, Yuusuke Yamaguchi, Masafumi Fukunari, Takumi Hirobe, Ryushi Shinbayashi, Shunsuke Tanaka, Kunizo Ohkubo, Shin Kubo, Takashi Shimozuma, Kenji Tanaka and Masaki Nishiura	EPJ Web of Conferences,203 (2019.03)03012-(5)

〔論文（その他）〕 1件

題目	著者	掲載誌, 巻, 号(出版年月)頁
Recent progress in development and application of sub-THz gyrotrons in University of Fukui	Y. Tatematsu	EPJ Web of Conferences,195 (2018.11)01018-(2)

〔講 演〕 127件

題目	発表者	会議名, 発表番号記号, 開催地, 抄録集等名 （開催年月）
Non-Collinear and Non-Ellipsometric Electro-Optic Sampling Techniques for Efficient Terahertz Wave Detection	Masahiko Tani, Hiroyuki Kato, Daiki Goto, Takuro Yasumoto, Hideaki Kitahara, Takashi Furuya, Kohji Yamamoto, Takashi Notake, Hiroaki Minamide, Elmer S. Estacio, and Michael Bakunov	SPIE Defense + Commercial Sensing 2018, CONFERENCE 10657, Next-Generation Spectroscopic Technologies XI,Orlando(USA) (2018.04)
Development of THz Emitters and Detectors for Femtosecond-Fiber-Laser-Based Terahertz Time-Domain Spectroscopy	Masahiko Tani, Hideaki Kitahara, Takuro Yasumoto, Daiki Goto, Hiroyuki Kato, Valynn Mag-usara, Jessica Afalla, Joselito Muldera, Dmitry Bulgarevich, Kohji Yamamoto, Takashi Furuya, Elmer Estacio, Michael Bakunov, Garik Torosyan, Johannes L'huillier, Evangelos Th. Papaioannou, René Beigang	The 9th International Symposium on Ultrafast Phenomena and Terahertz Waves,Palawan(Philippines) (2018.04)
メタマテリアルおよびプラズモニクスを活用したテラヘルツ波の波長変換素子の開発	谷 正彦, 山本 晃司, 北原 英明, 古屋 岳, 高野 恵介, 中嶋 誠	光・量子ビーム科学合同シンポジウム2018,8P17 (2018.05)
Developments for collective Thomson scattering equipment with a sub-THz gyrotron in LHD	T. Saito, Y. Tatematsu, Y. Yamaguchi, M. Fukunari, T. Hirobe, R. Shinbayashi, S. Tanaka, K. Ohkubo, S. Kubo, T. Shimozuma, K. Tanaka and M. Nishiura	20th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating,S6.3,Greifswald (Germany) (2018.05)
Study of sub-Tera-Hz gyrotron scattering for a direct detection of EBW in QUEST	Shin Kubo, Hiroshi Idei, Teruo Saito, and Yoshinori Tatematsu	20th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating,Thur11,Greifswald (Germany) (2018.05)
偏光フィルタリングによるテラヘルツ領域ヘテロダイン電気光学サンプリングの感度向上	北原英明, 安本拓朗, 後藤大輝, 加藤博之, 椎原正基, ジェシカ・アファリア, バリン・マグウサラ, 山本晃司, 古屋岳, エルマー・エスタシオ, マイケル・バクノフ, 谷 正彦	平成30 年度(2018 年)日本分光学会年次講演会,PII-07 (2018.05)
Photo-carrier dynamics in semiconductors studied by time-resolved terahertz spectroscopy	Jessica Afalla, Takeshi Moriyasu, Hideaki Kitahara, Armando Somintac, Arnel Salvador, Elmer Estacio, and Masahiko Tani	The 36th Samahang Pisika ng Pilipinas International Physics Conference and Annual Meeting,Roma(Italy) (2018.06)
Generation of Terahertz Radiation Using Fe/Pt-based Spintronic Emitter at 1550-nm Excitation Wavelength	Valynn Katrine Mag-usara, Garik Torosyan, Jessica Afalla, Joselito Muldera, Dmitry Bulgarevich, Hideaki Kitahara, Sascha Keller, Laura Scheuer, Johannes L'huillier, Elmer Estacio, Christopher Que, Alvin Karlo Tapia, Keisuke Tominaga, Rene Beigang, Evangelos Th. Papaioannou, and Masahiko Tani	The 36th Samahang Pisika ng Pilipinas International Physics Conference and Annual Meeting,EA-08,Palawan(Philippines) (2018.06)
Thickness Dependence of Terahertz Emission of E-Beam Grown Fe/Pt Spintronic Heterostructures Excited at 800nm	Miezel Talara, Valynn Katrine Mag-usara, Katsuhiko Saito, Qixin Guo, and Masahiko Tani	The 36th Samahang Pisika ng Pilipinas International Physics Conference and Annual Meeting,EA-07,Palawan(Philippines) (2018.06)
Sensitivity improvement of electro-optic sampling	Hideaki Kitahara, Takuro Yasumoto, Daiki Goto, Hiroyuki Kato, Masaki Shiihara, Jessica Afalla, Valynn Mag-usara, Kohji Yamamoto, Takashi Furuya, Alvin Tapia, Christopher Que, Elmer Estacio, Michael Bakunov, Keisuke Tominaga, Masahiko Tani	The 36th Samahang Pisika ng Pilipinas International Physics Conference and Annual Meeting,EA-06,Palawan(Philippines) (2018.06)
Toward realization of a low-cost terahertz time-domain spectroscopy system (fs fiber-laser based THz-TDS)	Masahiko Tani	The 36th Samahang Pisika ng Pilipinas International Physics Conference and Annual Meeting,INV-1E-02,Palawan(Philippines) (2018.06)
Development of the 0.16THz in vivo exposure system for evaluating acute ocular damages with the high power gyrotron electromagnetic wave source	Yukihisa Suzuki, Masami Kojima, Takafumi Tasaki, Yoshinori Tatematsu, Masafumi Fukunari, Maya Mizuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki	The Joint Annual Meeting of The Bioelectromagnetics Society and the European BioElectromagnetics Association (BioEM2018),S15-6,Piran (Slovenia) (2018.06)
Sub-Terahertz MSL and CPW rectenna using 303 GHz 300 kW-class Gyrotron	Sei Mizojiri, Shunsuke Minakawa, Masatoshi Suzuki, Kohei Shimamura, Shigeru Yokota, Masafumi Fukunari, Teruo Saito, Yoshinori Tatematsu, Yusuke Yamaguchi	2018 IEEE Wireless Power Transfer Conference (WPTC),Track A / [M3A],Montreal (Canada) (2018.07)
Electromagnetic-wave sintering of alumina ceramics from nano-sized particles: possible material for high-pressure cell for millimeter-wave electron spin resonance	T. Nawate, Y. Yamamoto, Y. Kanie, S. Mitsudo, Y. Fujii and T. Sakurai	The 1st Siliwangi International Conference on Innovation in Research (SICIR2018),Bandung (Indonesia) (2018.08)
Extraction of Japanese essential oils from the leaves of the lindera umbellata by using microwave heated distillation	Y. Yamamoto, T. Nawate, S. Mitsudo	The 1st Siliwangi International Conference on Innovation in Research (SICIR2018),Bandung (Indonesia) (2018.08)
Solid State Physics and Material Development Applications By Using Gyrotron Oscillators	光藤誠太郎, 山本悠太, 縄手知樹, 西脇拓生, 河野海志, 堂野壱暉, 柊木健志, 石川裕也, 藤井裕	The 1st Siliwangi International Conference on Innovation in Research (SICIR2018),Bandung (Indonesia) (2018.08)
二重磁気共鳴測定のための平面型コイルを用いたミリ波帯共振器の開発	小泉優太, 石川裕也, 大矢健太, 三浦俊亮, 藤井裕, 福田昭, 光藤誠太郎, 菊池彦光	第五回西日本強磁場科学研究会,P-8,神戸大学 (2018.09)
154 GHzジャイロトロンによる直交検波法を用いたESR装置の開発	堂野壱暉, 河野海志, 林哉太, 石川裕也, 光藤誠太郎	第五回西日本強磁場科学研究会,P-9,神戸大学 (2018.09)
電磁波焼結による高周波高圧ESRセル用アルミナ材料の開発	縄手知樹, 山本悠太, 蟹江良尚, 光藤誠太郎, 櫻井敬博	第五回西日本強磁場科学研究会,P-10,神戸大学 (2018.09)
三角格子ストリップとハニカム格子ストリップからなるフラストレート磁性体$Cu_5(VO_4)_2(OH)_4$の強磁場磁化過程	菊池彦光, 笠松直幸, 藤井裕, 松尾晶, 金道浩一	第五回西日本強磁場科学研究会,P-11,神戸大学 (2018.09)

福井大学におけるミリ波帯磁気共鳴装置開発の取り組み	石川裕也, 藤井裕, 光藤誠太郎, 浅野貴行, 小泉優太, 河野海志, 大見謝恒宙, 堂野壱暉, 福田昭, 水崎隆雄, 松原明, 山森英智, Soonchil Lee, Sergey Vasiliev,菊池彦光	第五回西日本強磁場科学研究会,Session2-1,神戸大学 (2018.09)
ハニカム格子反強磁性体$KNiAsO_4$の磁気的性質	菊池彦光, 藤井裕, 松尾晶, 金道浩一	日本物理学会2018年秋季大会,9aPS-51,京田辺市,講演概要集 (2018.09)
S=1/2擬一次元反強磁性鎖$Cu(C_4H_4N_2)(NO_3)_2$の高周波ESR	石川裕也, 浅野貴行, 浅田瑞枝, 中村敏和, 三浦俊亮, 藤井裕, 光藤誠太郎, 菊池彦光	日本物理学会2018年秋季大会,9aPS-77,京田辺市,講演概要集 (2018.09)
ENDOR測定に向けた平面型コイルを用いたミリ波帯共振器の開発II	小泉優太, 石川裕也, 大矢健太, 三浦俊亮, 藤井裕, 福田昭, 松原明, 水崎隆雄, S. Lee, 小林英一, 菊池彦光, 光藤誠太郎	日本物理学会2018年秋季大会,9aPS-81,京田辺市,講演概要種 (2018.09)
Mid-Gap State in GaAs Bulk and its Magnetic Property by First-Principles Method	Mary Clare Sison Escaño, Yu Osanai, Hideaki Kasai, and Masahiko Tani	日本物理学会2018年秋季大会,10pC117-5,京田辺市,講演概要種 (2018.09)
Properties of an Optimized Fe/Pt-based Spintronic Terahertz Emitter: Excitation Power and Wavelength Dependences	Valynn Katrine Mag-usara, Garik Torosyan, Jessica Afalla, Joselito Muldera, Dmitry Bulgarevich, Hideaki Kitahara, Mary Clare Sison Escaño, Sascha Keller, Laura Scheuer, Johannes L' huillier, René Beigang, Evangelos Th. Papaioannou, and Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Mo-P2-1c-5,名古屋市 (2018.09)
Enhancement Of Electric Field In E-plane Sectoral Horn Antennas Reconsidered By Plasmonic Theory	Kazuyoshi Kurihara, Kiwamu Kusama, Fumiyoshi Kuwashima, Osamu Morikawa, Kohji Yamamoto, Hideaki Kitahara, Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Mo-POS-63,名古屋市 (2018.09)
Enhancement of THz EO Sampling Signal by Polarization Filtering	Hiroyuki Kato, Hideaki Kitahara, Daiki Goto, Takuro Yasumoto, Masaki Shihara, Kohji Yamamoto, Takashi Furuya, Jessica Afalla, Valynn Mag-usara, Clare Escaño, Michael Bakunov, Elmer Estacio, Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Mo-POS-68,名古屋市 (2018.09)
Developments of Equipment for Sub-THz Collective Thomson Scattering in LHD	T. Saito, S. Tanaka, R. Shinbayashi, T. Hirobe, Y. Yamaguchi, M. Fukunari, Y. Tatematsu, K. Ohkubo, S. Kubo, T. Shimozuma, K. Tanaka and M. Nishiura	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Tu-P2-R1-2,名古屋市 (2018.09)
Development of a Second Harmonic Multi-Frequency Gyrotron with Gaussian Beam Output	Yoshinori Tatematsu, Kyoya Takayama, Yuto Maeda, Tatsuya Ueyama, Taisei Ogura, Masafumi Fukunari, Yuusuke Yamaguchi, and Teruo Saito	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Tu-P2-R1-5,名古屋市 (2018.09)
Understanding The Formation Of Midgap States In GaAs(001)--β2(2x4) With Surface Defects Based On Density Functional Theory	Dhonny Bacuyag, Mary Clare Escaño, Melanie David, Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Tu-POS-20,名古屋市 (2018.09)
On-Chip Terahertz Near-Field Generation/Detection Scheme	Dmitry S. Bulgarevich, Yusuke Akamine, Hideaki Kitahara, Valynn Katrine Mag-usara, Hiroyuki Kato, Masahiro Kusano, Dongfeng He, Masahiko Tani, Makoto Watanabe	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Tu-POS-31,名古屋市 (2018.09)
Development of metamaterial structures for THz frequency conversion device	Yusuke Akamine, Dmitry S. Bulgarevich, Kohji Yamamoto, Takashi Furuya, Hideaki Kitahara, Jessica Afalla, Valynn Mga-usara, Keisuke Takano, Makoto Nakajima, Khoa Nhat Thanh Phan, Kosaku Kato, Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Tu-POS-78,名古屋市 (2018.09)
Photo-carrier dynamics of MBE-grown GaAs on Silicon studied by optical-pump terahertz-probe	Jessica Afalla, Karl Cedric Gonzales, Joselito Muldera, Elizabeth Ann Prieto, Gerald Catindig, John Daniel Vasquez, Horace Andrew Husay, Takeshi Moriyasu, Hideaki Kitahara, Dmitry Bulgarevich, Valynn Mag-usara, Takashi Furuya, Armando Somintac, Arnel Salvador, Elmer Estacio and Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),We-P1-R1-5,名古屋市 (2018.09)
Development of Millimeter-Wave Fabry-Perot Resonator for Simultaneous Electron-Spin and Nuclear-Magnetic Resonance Measurement at Low Temperatures	Y. Fujii, Y. Ishikawa, Y. Koizumi, T. Omija, K. Ohya, S. Miura, A. Fukuda, S. Mitsudo, H. Yamamori, H. Kikuchi	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),We-POS-11,名古屋市 (2018.09)
Development of Millimeter-Wave Electron-Spin-Resonance Measurement Apparatus for Ultralow Temperatures and Its Application to Measurements of CuPzN	Yuya Ishikawa, Yutaka Fujii, Kenta Ohya, Yuta Koizumi, Shunsuke Miura, Seitaro Mitsudo, Akira Fukuda, Takayuki Asano, Takao Mizusaki, Akira Matsubara, Hikomitsu Kikuchi, Hidetomo Yamamori	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),We-POS-16,名古屋市 (2018.09)
Development of a High-Power Gyrotron for Beamed Energy Propulsion Applications	Masafumi Fukunari, Yasuhisa Oda, Tsuyoshi Kariya, Ryutaro Minami, Yuusuke Yamaguchi, Yoshinori Tatematsu, Teruo Saito, Keishi Sakamoto, Tsuyoshi Imai, and Kimiya Komurasaki	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),We-POS-69,名古屋市 (2018.09)
Observation of Increased Number of Frequency Steps in Multi-Frequency Oscillations with a Two-Cavity Gyrotron	Yuusuke Yamaguchi, Masafumi Fukunari, Taisei Ogura, Tatsuya Ueyama, Yuto Maeda, Kyoya Takayama, Yoshinori Tatematsu, Teruo Saito	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),We-POS-75,名古屋市 (2018.09)
Observation of the Discharge Structure in 303 GHz Millimeter-Wave Air Breakdown	Masafumi Fukunari, Tetsuo Yokoyama, Shunsuke Tanaka, Ryuji Shinbayashi, Takumi Hirobe, Yuusuke Yamaguchi, Yoshinori Tatematsu and Teruo Saito	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Th-P1-1b-5,名古屋市 (2018.09)
Observation of FID on BDPA by Pulsed ESR Using a Gyrotron as High-Power Millimeter Wave Source	Seitaro Mitsudo, Kenshi Hiiragi, Kaishi Kono, Kazuki Dono, Yuya Ishikawa, Yutaka Fujii	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Th-P1-4-2,名古屋市 (2018.09)
Terahertz Time-Domain Coherent Raman Spectroscopy of Aqueous Solution	Shoji Hayashi, Shun Nakae, Kunji Takemura, Stefan Funkner, Hideaki Kitahara, Takashi Furuya, Kohji Yamamoto, Jessica Afalla, Valynn Mag-usara, Dmitry Bulgarevich, Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Th-POS-11,名古屋市 (2018.09)
Origins of Heat Generation in Mixing Water and Dimethyl Sulfoxide	Kazuko Mizuno, Takashi Sumikama, Yoshinori Tamai, and Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Th-POS-14,名古屋市 (2018.09)
Sensitivity Improvement of Heterodyne Electro-Optic Sampling	Hideaki Kitahara, Takuro Yasumoto, Daiki Goto, Hiroyuki Kato, Masaki Shiihara, Jessica Afalla, Valynn Mag-usara, Kohji Yamamoto, Takashi Furuya, Elmer Estacio, Michael Bakunov, and Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Th-POS-24,名古屋市 (2018.09)
Spin-polarized GaAs surface studied by first-principles method with SO interaction for THz emission application	Mary Clare Sison Escaño, Hideaki Kasai, and Masahiko Tani	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Th-POS-75,名古屋市 (2018.09)

Electron Bernstein Wave Detection by Sub-Tera-Hz Gyrotron Scattering in QUEST	Shin Kubo, Hiroshi Idei, Teruo Saito, Yoshinori Tatematsu, Moe Iizawa	2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018),Fr-A2-R2-5,名古屋市 (2018.09)
高効率テラヘルツ電磁波放射体研究	李 大治, 中嶋 誠, 楊 金峰, 谷 正彦	2018年第79回応用物理学会秋季学術講演会,名古屋市 (2018.09)
Development of THz spectrometers for materials characterization and semiconductor carrier dynamics studies	Jessica Afalla, Hideaki Kitahara, Valynn Mag-usara, Hiroyuki Kato, Masaki Shiihara, Takashi Furuya, Yusuke Akamine, Shoji Hayashi, Miezel Talara, Kazuko Mizuna, Mary Clare Escaño, Armando Somintac, Arnel Salvador, Elmer Estacio, Masahiko Tani	Symposium on Advanced Spectroscopic Techniques,University of the Philippines Los Baños (Philippines) (2018.09)
Development of Resonators for Millimeter-wave Band ESR/NMR Double Magnetic Resonance Measurements of Thin Samples	Yuta Koizumi, Yuya Ishikawa, Kenta Ohya, Shunsuke Miura, Yutaka Fujii, Akira Fukuda, Akira Matsubara, Takao Mizusaki, Soonchil Lee, Eiichi Kobayashi, Hikomitsu Kikuchi, Seitaro Mitsudo	The third joint conference of the Asia-Pacific EPR/ESR Society and The International EPR (ESR) Society (IES) Symposium (APES-IES2018),P13,Brisbane (Australia) (2018.09)
Millimeter wave and Terahertz investigations on some dielectric materials	M. G. Banciu, T. Furuya, D. C. Geambasu, L. Nedelcu, D. Pantelica, M.-D. Dracea, P. Ionescu, A. Iuga, C. Chirila, L. Hrib, L. Trupina, M. Tani	the 41st edition of the International Semiconductor Conference - CAS 2018,Sinaia(Romania) (2018.10)
Recent progress in development and application of sub-THz gyrotrons in University of Fukui	Y. Tatematsu	3rd International Conference Terahertz and Microwave Radiation: Generation, Detection and Applications (TERA-2018),S1.1-2,Nizhny Novgorod (Russia) (2018.10)
303 GHz大電力ミリ波放電の電界面と磁界面での構造の違い及び超臨界条件から亜臨界条件への変化	福成雅史、横山哲士、田中俊輔、新林竜志、廣部匠、山口裕資、立松芳典、斉藤輝雄	第62回宇宙科学技術連合講演会,3N02,久留米市 (2018.10)
^{3}He-^{4}He希釈冷凍機を用いたミリ波帯超低温ESR/NMR測定装置の開発	石川裕也, 藤井裕, 大矢健太, 三浦俊亮, 福田昭, 浅野貴行, 小泉優太, 光藤誠太郎, 水崎隆雄, 松原明, 菊池彦光, Soonchil Lee, Sergey Vasiliev, 山森英智	第57回電子スピンサイエンス学会年会,J-04,札幌市 (2018.11)
154 GHzジャイロトロンを用いた力検出型ESR測定法と金属タンパク質への応用	岡本翼, 高橋英幸, 石村謙斗, 河野海志, 堂野壱暉, 石川裕也, 光藤誠太郎, 大道英二, 太田仁	第57回電子スピンサイエンス学会年会,P-02,札幌市 (2018.11)
平面型コイルを用いたSi:Pのミリ波帯ESR/NMR二重磁気共鳴測定	小泉優太, 石川裕也, 大矢健太, 三浦俊亮, 藤井裕, 福田昭, 松原明, 水崎隆雄, Soonchil Lee, 小林英一, 菊池彦光, 光藤誠太郎	第57回電子スピンサイエンス学会年会,P-04,札幌市 (2018.11)
擬一次元反強磁性量子スピン系$Cu(C_4H_4N_2)(NO_3)_2$のミリ波ESR測定	藤井裕, 石川裕也, 浅野貴行, 小泉優太, 三浦俊亮, 浅田瑞枝, 中村敏和, 光藤誠太郎, 菊池彦光, 岩佐和晃	第57回電子スピンサイエンス学会年会,P-05,札幌市 (2018.11)
直交検波法を用いた154 GHzジャイロトロン光源によるFID測定	河野海志, 堂野壱暉, 石川裕也, 林哉太, 藤井裕, 光藤誠太郎	第57回電子スピンサイエンス学会年会,P-37,札幌市 (2018.11)
Development of Sub-Terahertz Rectenna Using Gyrotron	Sei Mizojiri, Shunsuke Minakawa, Kohei Shimamura, Shigeru Yokota, Masafumi Fukunari, Teruo Saito, Yoshinori Tatematsu, Yuusuke Yamaguchi	2018 Asia-Pacific Microwave Conference (APMC),WE2-C2-3,Kyoto (2018.11)
ジャイロトロンを用いたサブテラヘルツ無線電力伝送	溝尻征、嶋村耕平、横田茂、斉藤輝雄、立松芳典、山口裕資、福成雅史	第4回宇宙太陽発電(SSPS)シンポジウム,京都市 (2018.11)
Photoconductive and electro-optic sampling of THz pulsed waves by using 1.55-μm fs laser pulses	Masahiko Tani, Hideaki Kitahara, Mary Clare S. Escaño, Hiroyuki Kato, Valynn Mag-usara, Jessica Afalla, Kohji Yamamoto, Takashi Furuya, Elmer Estacio, Michael Bakunov	The 10th International Conference on Photonics and Applications (ICPA-10),Ha Long City (Vietnam) (2018.11)
Experimental investigation on millimeter-wave discharge induced in gas	Masafumi Fukunari, Tetsuo Yokoyama, Shunsuke Tanaka, Ryuji Shinbayashi, Yuusuke Yamaguchi, Yoshinori Tatematsu, Teruo Saito, Kimiya Komurasaki	2nd Asia-Pacific Conference on Plasma Physics,BI-24,金沢市 (2018.11)
Electromagnetic wave sintering of alumina ceramics from nano-size powder by using 28 GHz gyrotron	Tomoki Nawate, Yuuta Yamamoto, Yoshihisa Kanie, Seitaro Mitsudo, Takahiro Sakurai	The 12th Symposium of Japan Society of Electromagnetic Wave Energy Applications (the 12th JEMEA),P-03,福岡市 (2018.11)
Extraction of essential oils from leaves of the Japanese Lindera umbellata by using microwave heating distillation method	Yuuta Yamamoto, Tomoki Nawate, Seitaro Mitsudo	The 12th Symposium of Japan Society of Electromagnetic Wave Energy Applications (the 12th JEMEA),P-23,福岡市 (2018.11)
マイクロ波蒸留法による木質ペレットの精油抽出	山本悠太, 縄手知樹, 光藤誠太郎	2018年度日本物理学会北陸支部定例学術講演会,A-a8,金沢市,講演予稿集 (2018.11)
極低温ESR測定用周波数可変共振器へ応用を目指したピエゾアクチュエータの調整パラメータの定量化の試み	林哉汰, 富永隼人, 堂野壱暉, 大見謝恒宙, 石川裕也, 藤井裕, 光藤誠太郎, 本田知己, 川崎孝俊, 山森英智	2018年度日本物理学会北陸支部定例学術講演会,C-a3,金沢市,講演予稿集 (2018.11)
平面コイルを用いた希薄リンドープシリコンの超低温ESR/NMR二重磁気共鳴測定	小泉優太, 石川裕也, 大矢健太, 三浦俊亮, 藤井裕, 福田昭, 松原明, 水崎隆雄, Soonchil Lee, 小林英一, 菊池彦光, 光藤誠太郎	2018年度日本物理学会北陸支部定例学術講演会,C-a4,金沢市,講演予稿集 (2018.11)
154GHzジャイロトロン光源を用いた直行検波法パルスESRによるFID測定	河野海志, 堂野壱暉, 石川裕也, 林哉汰, 藤井裕, 光藤誠太郎	2018年度日本物理学会北陸支部定例学術講演会,C-a5,金沢市,講演予稿集 (2018.11)
スピンダイマー反強磁性体 $CoSeO_3 \cdot 2H_2O$ における磁場誘起磁気相転移	加藤捷豊, 菊池彦光, 藤井裕	2018年度日本物理学会北陸支部定例学術講演会,C-a6,金沢市,講演予稿集 (2018.11)
400 GHz帯二次高調波ジャイロトロンにおけるTE8,4/TE8,5モード複合共振器の実験的検証	小椋大聖, 福成雅史, 前田悠斗, 上山達也, 高山京也, 峠正範, 山口裕資,立松芳典, 斉藤輝雄	第35回 プラズマ・核融合学会 年会,3P61,吹田市 (2018.12)
二次高調波多周波数ガウスビーム出力ジャイロトロンの発振特性評価	上山達也, 高山京也, 中川和輝, 前田悠斗, 小椋大聖, 神谷亮汰, 笹野準貴, 若林優次, 福成雅史, 山口裕資, 斉藤輝雄, 立松芳典	第35回 プラズマ・核融合学会 年会,3P60,吹田市 (2018.12)
複合共振器搭載ジャイロトロンにおける超多周波発振の観測	山口裕資, 小椋大聖, 上山達也, 前田悠斗, 高山京也, 福成雅史, 立松芳典, 斉藤輝雄	第35回 プラズマ・核融合学会 年会,4Pa63,吹田市 (2018.12)
LHDにおけるサブテラヘルツ帯協同トムソン散乱計測のための機器開発と準備	斉藤輝雄, 田中俊輔, 新林竜志, 山口裕資, 福成雅史, 立松芳典, 大久保邦三, 久保伸, 下妻隆, 田中謙治, 西浦正樹	第35回 プラズマ・核融合学会 年会,4Bp02,吹田市 (2018.12)
LHD における CTS 計測用 300 GHz 帯ジャイロトロンの発振特性	田中俊輔, 斉藤輝雄, 新林竜志, 山口裕資, 福成雅史, 立松芳典, 下妻隆, 久保伸, 田中謙治, 西浦正樹	第35回 プラズマ・核融合学会 年会,4P59,吹田市 (2018.12)

400 GHz帯二次高調波ジャイロトロンにおける複合共振器の改良	前田悠斗, 福成雅史, 小椋大聖, 笹野準貴, 若林優次, 峠正範, 山口裕資, 立松芳典, 斉藤輝雄	第35回 プラズマ・核融合学会 年会,4Da03,吹田市 (2018.12)
二次高調波多周波数ガウスビーム出力ジャイロトロンのモード変換器設計及びビーム形状計測	高山京也, 立松芳典, 上山達也, 中川和輝, 前田悠斗, 小椋大聖, 神谷亮汰, 笹野準貴, 若林優次, 山森英智, 峠正範, 青山直樹, 川﨑孝俊, 山口裕資, 福成雅史, 斉藤輝雄	第35回 プラズマ・核融合学会 年会,4Da02,吹田市 (2018.12)
サブテラヘルツ波の散乱を用いたQUESTの電子バーンシュタイン波直接検出	久保伸, 出射浩, 斉藤輝雄, 立松芳典, 飯澤萌	第35回 プラズマ・核融合学会 年会,6P55,吹田市 (2018.12)
LHDにおける300GHz帯CTS計測用ジャイロトロン出力ビームの整形と3.5インチコルゲート導波管伝送試験	新林竜志, 田中俊輔, 斉藤輝雄, 大久保邦三, 山口裕資, 福成雅史, 立松芳典, 久保伸, 下妻隆, 田中謙治, 西浦正樹	第35回 プラズマ・核融合学会 年会,5P54,吹田市 (2018.12)
高速度カメラを用いたE面とH面での303 GHz ミリ波放電構造の詳細計測	福成雅史, 田中俊輔, 新林竜志, 山口裕資, 立松芳典, 斉藤輝雄	第35回 プラズマ・核融合学会 年会,5Ba07,吹田市 (2018.12)
サブミリ波ジャイロトロン開発と応用	立松芳典	第35回 プラズマ・核融合学会 年会,S6-4,吹田市 (2018.12)
偏光フィルタリングによるテラヘルツ波のEOサンプリング検出	北原英明, 加藤博之, 椎原正基, 江崎晃弘, Jessica Afalla, Valynn Mag-usara, 山本晃司, 古屋 岳, 谷 正彦	レーザー学会第526回研究会「レーザー計測とその応用」,RTM-18-45,大阪市 (2018.12)
偏光フィルタリングによるテラヘルツ波ヘテロダイン電気光学サンプリングのノイズフロアとダイナミックレンジ	北原英明, 加藤博之, 椎原正基, 江崎晃弘, 山本晃司, 古屋岳, エルマー エスタシオ, マイケル バクノフ, 谷正彦	テラヘルツ科学の最先端V,Pos21,千葉市 (2018.12)
金属スピントロニック素子によるTHz波放射の励起光波長および出力依存性	織田 祥成, Valynn Katrine Mag-usara, Miezel Talara, 北原英明, Jessica Afalla, Garik Torosyan, Sascha Keller, Laura Scheuer, Johannes L'huillier, Rene Beigang, Evangelos Th. Papaioannou, 谷 正彦	テラヘルツ科学の最先端V,Con5-AS,千葉市 (2018.12)
福井大学におけるミリ波ESR測定装置の開発と測定	藤井裕	第13回量子スピン系研究会,9-6,東海村 (2019.01)
放射パターン計測によるミリ波の位相解析及び位相補正鏡の開発	福成 雅史、神谷 亮汰、中川 和輝、山口 裕資、立松 芳典、斉藤 輝雄	第16回赤外放射応用関連学会年会 (2019.01)
Development of sub THz gyrotrons in wide frequency band in FIR UF	Yoshinori Tatematsu, Yuusuke Yamaguchi, Masafumi Fukunari, Kyoya Takayama, Yuto Maeda, Tensei Ogura, Tatsuya Ueyama, Kazuki Nakagawa, Ryota Kamiya, Junki Sasano, Yuji Wakabayashi, Teruo Saito	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),5a-2,福井市,Program and Abstracts (2019.03)
New Emitters and Detectors for Terahertz Time-Domain Spectroscopy with 1.55-μm Fs Laser Sources	Masahiko Tani, Hideaki Kitahara, Hiroyuki Kato, Valynn Mag-usara, Jessica Afalla, Takashi Furuya, Mary Clare S. Escaño, Kohji Yamamoto, Elmer Estacio, Michael Bakunov	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),5p-6,福井市,Program and Abstracts (2019.03)
Development of CW Clinotrons for THz Applications	A. Kuleshov, E. Khutoryan, S. Ponomarenko, S. Kishko, A. Likhachev	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),6a-3,福井市,Program and Abstracts (2019.03)
Dynamic nuclear polarization of doped silicon at high fields and low temperatures	Jarno Järvinen, Denis Zvezdov, Janne Ahokas, Sergey Vasiliev, Yuya Ishikawa, Yutaka Fujii, Leonid Vlasenko	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),6a-5,福井市,Program and Abstracts (2019.03)
Terahertz Emission and Detection Characteristics of MBE-grown GaAs Photoconductive Antennas – Effect of Metal Contact Composition and Substrate Growth Temperature	Neil Irvin Cabello, Clairecynth Yu, John Paul Ferrolino, Ma. Angela Faustino, Alexander De Los Reyes, Elizabeth Ann Prieto, Jessica Pauline Afalla, Valynn Katrine Mag-usara, Hideaki Kitahara, Masahiko Tani, Armando Somintac, Elmer Estacio, Arnel Salvador	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),6p-3,福井市,Program and Abstracts (2019.03)
Origin of two-step photon absorption in low-temperature GaAs by first principles methods.	Escaño Mary Clare Sison	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),6p-4,福井市,Program and Abstracts (2019.03)
Development of a 600 kW Gyrotron for Microwave Rocket Researches	Kuniyoshi Tabata, Masafumi Fukunari, Yasuhisa Oda, Tsuyoshi Kariya, Ryutaro Minami, Keishi Sakamoto, Tsuyoshi Imai and Kimiya Komurasaki	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),7a-2,福井市,Program and Abstracts (2019.03)
Ocular damage threshold to millimeter wave (162 GHz) exposure	M. Kojima, Y. Suzuki, T. Tasaki, Y. Tatematsu, M. Fukunari, M. Tani and H. Sasaki	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),7a-3-1,福井市,Program and Abstracts (2019.03)
Development and dosimetry of the 162GHz in vivo exposure system with the gyrotron for the investigation of ocular damages	Y. Suzuki, M. Kojima, T. Okuno, M. Takamura, A. Hada, T. Tasaki, Y. Tatematsu, M. Fukunari, M. Mizuno, M. Tani and H. Sasaki	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),7a-3-2,福井市,Program and Abstracts (2019.03)
Application of gyrotron for millimeter wave pulsed ESR measurements	Seitaro Mitsudo, Kaishi Kono, Kazuki Dono, Kanata Hayashi, Yuya Ishikawa, Yutaka Fujii	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),7a-5,福井市,Program and Abstracts (2019.03)
Sub-terahertz wireless power transmission using 303 GHz Gyrotron	Sei Mizojiri, Kohei Shimamura, Masafumi Fukunari, Shunsuke Minakawa, Maho Matsukura, Shigeru Yokota, Yuusuke Yamaguchi, Yoshinori Tatematsu, Teruo Saito	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-3,福井市,Program and Abstracts (2019.03)
Frequency Stability of a High Power Sub-THz gyrotron	Teruo Saito, Shunsuke Tanaka, Ryuji Shinbayashi, Yoshinori Tatematsu, Yuusuke Yamaguchi and Masafumi Fukunari	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-4,福井市,Program and Abstracts (2019.03)
Development of a Second Harmonic Multi-Frequency Gyrotron with Gaussian Beam Output, Gyrotron FU CW GVII	T. Ueyama, Y. Tatematsu, Y. Yamaguchi, K. Takayama, Y. Maeda, T. Ogura, K. Nakagawa, R. Kamiya, J. Sasano, Y. Wakabayashi, M. Fukunari, T. Saito	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-5,福井市,Program and Abstracts (2019.03)
Suppression of Parasitic Modes in 3d Harmonic Terahertz-Range Gyrotrons with Specially Increased Velocity Spread	M. Glyavin, V. Manuilov, A. Tzvetkov, I. Bandurkin, A. Fedotov, I. Zotova, V. Zaslavsky, O. Dumbrajs, S. Mitsudo, T. Idehara	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-8,福井市,Program and Abstracts (2019.03)
Grating reflector mirror design for sub-Tera-Hz scattering in the QUEST	Shin Kubo, Hiroshi Idei, Teruo Saito, Yoshinori Tatematsu	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-9,福井市,Program and Abstracts (2019.03)
Design Improvement of a Complex-Cavity resonator for the 400 GHz Second-Harmonic Gyrotron	Yuto Maeda, Tensei Ogura, Junki Sasano, Masafumi Fukunari, Yuusuke Yamaguchi, Masanori Tao, Yoshinori Tatematsu, Teruo Saito	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-11,福井市,Program and Abstracts (2019.03)

Observation of Super-Multiple Frequency Oscillations with a Complex-Cavity Gyrotron	Y. Yamaguchi, T. Ogura, M. Fukunari, J. Sasano, T. Ueyama, Y. Maeda, K. Takayama, Y. Tatematsu and T. Saito	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-12,福井市,Program and Abstracts (2019.03)
Development of Phase Correcting Mirrors for Gyrotron FU CW GV Based on Radiation Profile Measurements	Masafumi Fukunari, Ryota Kamiya, Kazuki Nakagawa, Yuto Maeda, Tatsuya Ueyama, Tensei Ogura, Yuusuke Yamaguchi, Yoshinori Tatematsu, Teruo Saito	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-13,福井市,Program and Abstracts (2019.03)
Observation of Filamentary Array Formations under Overcritical to Subcritical Conditions in 303 GHz Millimeter-Wave Air-breakdown	M. Fukunari, S. Tanaka, R. Shinbayashi, Y. Yamaguchi, Y. Tatematsu, and T. Saito	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-14,福井市,Program and Abstracts (2019.03)
Irradiation Effect of Gyrotron on Amyloid Fibrils	Takayasu Kawasaki, Yuusuke Yamaguchi, Yuya Ishikawa, Toshitaka Idehara,Koichi Tsukiyama	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-15,福井市,Program and Abstracts (2019.03)
Terahertz Waveform Recognition with Machine Learning	Dmitry S. Bulgarevich, Masahiro Kusano, Hideaki Kitahara, Takashi Furuya, Jessica Afalla, Valynn Mag-usara, Masahiko Tani, Makoto Watanabe	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-16,福井市,Program and Abstracts (2019.03)
Influence of Photo-excitation on Terahertz Waveform Transmitted through Silicon	D. Koide, H. Sasajima, H. Umemura, J. Afalla, T. Moriyasu, M. Tani, H. Kitahara, T. Kohmoto, M. Kumakura	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-17,福井市,Program and Abstracts (2019.03)
Dynamic Range and Noise Floor of Heterodyne Electro-optic Sampling for Terahertz Wave using Polarization Filtering	Hideaki Kitahara, Hiroyuki Kato, Masaki Shiihara, Akihiro Esaki, Kohji Yamamoto, Takashi Furuya, Elmer Estacio, Michel Bakunov, Masahiko Tani	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-19,福井市,Program and Abstracts (2019.03)
Developments of sub-THz wave camera and application for plasma diagnostics	T. Tokuzawa, A. Tanabe, T. Tsujimura, S. Kubo, H. Tsuchiya, K. Yamamoto, T. Saito, M. Tani, H. Kitahara	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-20,福井市,Program and Abstracts (2019.03)
High THz emission enhancement in MODFET structures biased by an external magnetic field	Hannah Rillera-Bardolaza, Jessica Afalla, Alexander De Los Reyes, Deborah Anne Lumantas, John Daniel Vasquez, Valynn Katrine Mag-usara, Joselito Muldera, Armando Somintac, Arnel Salvador, Masahiko Tani, Elmer Estacio	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-21,福井市,Program and Abstracts (2019.03)
Investigations on Some Dielectric Materials in Sub-Terahertz and Terahertz Beams	M. G. Banciu, T. Furuya, L. Hrib, L. Nedelcu, L. Trupina, D. Pantelica, M.-D. Mihai, M. Tani	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-22,福井市,Program and Abstracts (2019.03)
Development of High Frequency Resolution FID Measurement Method by Terahertz Pulse Excitation	T. Furuya, H. Sanada, H. Kitahara, N. Aoyama, M. Tani	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-25,福井市,Program and Abstracts (2019.03)
Transmittance of terahertz wave through a metal parallel plate waveguide coupled with a metal taper investigated by FDTD simulation	Kohshi Inomata, Kohji Yamamoto, Kazutoshi Fukui, Masahiko Tani	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-26,福井市,Program and Abstracts (2019.03)
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Discussion of Overhauser effect in terms of the second order non-linear dynamical magnetic susceptibilities	Mitsuru Toda, Yutaka Fujii	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-29,福井市,Program and Abstracts (2019.03)
Development of a Millimeter-Wave ESR Measurement System for Ultra-Low Temperatures and Its Application to Copper Pyrazine Dinitrate: Possible Temperature Sensor from ESR Spectrum	Y. Fujii, Y. Ishikawa, Y. Koizumi, T. Omija, A. Fukuda, T. Mizusaki, A. Matsubara, T. Asano, H. Kikuchi, H. Yamamori, S. Mitsudo	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-30,福井市,Program and Abstracts (2019.03)
FT-ESR measurements by using a 154 GHz gyrotron as a radiation source	Kazuki Dono, Kaishi Kono, Kanata Hayashi, Yuya Ishikawa, Yutaka Fujii, Seitaro Mitsudo	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-31,福井市,Program and Abstracts (2019.03)
Development of a meanderline on Fabry-Pérot resonator for ESR/NMR double magnetic resonance measurements	Yuya Ishikawa, Yuta Koizumi, Yutaka Fujii, Akira Fukuda, Takao Mizusaki, Eiichi Kobayashi, Hikomitsu Kikuchi, Seitaro Mitsudo	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-32,福井市,Program and abstracts (2019.03)
Microwave extraction of essential oils from Japanese plants	Yuuta Yamamoto, Tomoki Nawate, Hafil Perudana Kusumah, Seitaro Mitsudo	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-33,福井市,Program and abstracts (2019.03)
Microwave Extraction of Essential Oils from Mikan Peel	H. P. Kusumah, Y. Yamamoto, T. Nawate, I. N. Sudiana and S. Mitsudo	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-34,福井市,Program and abstracts (2019.03)
Millimeter Wave Characteristic of Glass with Graphene Impurity	La Agusu, 光藤 誠太郎, 石川 裕也, 藤井裕, Fitriani Ahmar	The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019),P-35,福井市,Program and abstracts (2019.03)
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スピンダイマー系化合物$CoSeO_3 \cdot 2H_2O$における磁場誘起相転移	菊池彦光, 加藤捷豊, 藤井裕, 松尾晶, 金道浩一	日本物理学会第74回年次大会(2019年),14pS-PS-66,福岡市,講演概要集 (2019.03)
希釈BDPAラジカルを用いた154GHzジャイロトロン光源によるパルスESR装置の直交検波システムの開発	石川裕也, 河野海志, 堂野壱暉, 林哉汰, 藤井裕, 光藤誠太郎	日本物理学会第74回年次大会(2019年),14pS-PS-91,福岡市,講演概要集 (2019.03)
超低温における希薄リンドープシリコンの^{31}P動的核偏極核磁気共鳴信号の観測	藤井裕, 小泉優太, 石川裕也, 大見謝恒宙, 笈田智輝, 福田昭, 水崎隆雄, 光藤誠太郎, 菊池彦光	日本物理学会第74回年次大会(2019年),14pS-PS-92,福岡市,講演概要集 (2019.03)
極低温・ミリ波帯の電気検出型磁気共鳴測定装置の開発	大見謝恒宙, 石川裕也, 藤井裕, 福田昭, 光藤誠太郎, 山森英智	日本物理学会第74回年次大会(2019年),14pS-PS-93,福岡市,講演概要集 (2019.03)
高出力光源ジャイロトロンを用いたミリ波帯パルスESRシステムの開発	光藤 誠太郎, 河野 海志, 堂野 壱暉, 林 哉汰, 石川 裕也, 藤井 裕	日本物理学会第74回年次大会(2019年),15aF202-4,福岡市,講演概要集 (2019.03)

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2018年版 物理基礎実験	熊倉光孝, 栗原一嘉, 玉川洋一, 藤井裕, 浅野貴行, 西海豊彦, 松尾陽一郎	福井大学生活協同組合 (2018.04)

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〔学会等の開催〕 2件

名称	担当者	開催地(期間始)
2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2018)	谷正彦(Co-chair), 出原敏孝(Co-chair)	名古屋市 (2018.09)
第7回遠赤外技術に関する国際ワークショップ「The 7th International Workshop on Far-Infrared Technologies (IW-FIRT2019)」	谷正彦(Chairman), 光藤誠太郎, 立松芳典, 藤井裕, 山本晃司, Mary Clare Sison Escaño, 古屋岳, 山口裕資, 福成雅史, 石川裕也, 斉藤輝雄, A. Fedotov, I. Zotova, A. I. Tsvetkov, I. Bandurkin, S. Sabchevski, 出原敏孝	福井市 (2019.03)